

T. HOLLAND

Re-RUN

#6

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/856,836

DATE: 12/12/2001

TIME: 11:52:20

Input Set : A:\1242-14p.app

Output Set: N:\CRF3\12112001\I856836.raw

3 <110> APPLICANT: Vanderbilt University
 4 Datta, Pran K.
 5 Moses, Harold L.
 7 <120> TITLE OF INVENTION: PURIFIED AND ISOLATED SERINE-THREONINE KINASE RECEPTOR
 8 ASSOCIATED PROTEIN AND USE OF SAME IN THE MODULATION OF
 9 THE BIOLOGICAL ACTIVITY OF TGF-BETA
 11 <130> FILE REFERENCE: Attorney Docket No. 1242-14 PCT
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/856,836
 C--> 14 <141> CURRENT FILING DATE: 2001-12-12
 16 <150> PRIOR APPLICATION NUMBER: 60/111,668
 17 <151> PRIOR FILING DATE: 1998-12-10
 19 <160> NUMBER OF SEQ ID NOS: 2
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
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 26 <213> ORGANISM: Mus sp.
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 55 cctcctccct ccctccctgt ccgcc atg gcc atg agg cag acg ccg ctc act 112
 56 Met Ala Met Arg Gln Thr Pro Leu Thr
 57 1 5
 W--> 59 tgc tcg ggc cac acg cgg ccc gtg gtg gat ntg gcc ttc agc ggc atc 160
 W--> 60 Cys Ser Gly His Thr Arg Pro Val Val Asp Xaa Ala Phe Ser Gly Ile
 61 10 15 20 25
 63 acg cct tac ggc tac ttt ctg atc agc gct tgc aaa gat ggc aag ccc 208
 64 Thr Pro Tyr Gly Tyr Phe Leu Ile Ser Ala Cys Lys Asp Gly Lys Pro
 65 30 35 40

ENTERED

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67 atg ctc cgc cag gga gat aca gga gac tgg att gga aca ttt ttg ggt 256
68 Met Leu Arg Gln Gly Asp Thr Gly Asp Trp Ile Gly Thr Phe Leu Gly
69      45      50      55
71 cat aaa ggt gct gtt tgg ggt gca aca ttg aat aag gat gcc acc aaa 304
72 His Lys Gly Ala Val Trp Gly Ala Thr Leu Asn Lys Asp Ala Thr Lys
73      60      65      70
75 gct gcg aca gca gct gca gac ttc aca gcc aaa gta tgg gat gcg gtc 352
76 Ala Ala Thr Ala Ala Ala Asp Phe Thr Ala Lys Val Trp Asp Ala Val
77      75      80      85
79 tca gga gat gaa ttg atg acc ctg gct cat aag cac att gtc aag act 400
80 Ser Gly Asp Glu Leu Met Thr Leu Ala His Lys His Ile Val Lys Thr
81 90      95      100      105
W--> 83 gtg gat ttc aca cag gat agc aat tac ctg nta act ggg gga cag gat 448
W--> 84 Val Asp Phe Thr Gln Asp Ser Asn Tyr Leu Xaa Thr Gly Gly Gln Asp
85      110      115      120
87 aaa ctg ctg cgc ata tat gac ttg aac aaa cct gaa gca gaa cct aag 496
88 Lys Leu Leu Arg Ile Tyr Asp Leu Asn Lys Pro Glu Ala Glu Pro Lys
89      125      130      135
91 gaa atc agt ggc cac act tct ggt att aaa aag gct ctg tgg tgc agt 544
92 Glu Ile Ser Gly His Thr Ser Gly Ile Lys Lys Ala Leu Trp Cys Ser
93      140      145      150
95 gac gat aaa cag atc ctt tca gcg gat gat aaa act gtt cgg ctc tgg 592
96 Asp Asp Lys Gln Ile Leu Ser Ala Asp Asp Lys Thr Val Arg Leu Trp
97      155      160      165
99 gat cat gcc aca atg aca gaa gtg aaa tct ctg aat ttt aat atg tct 640
100 Asp His Ala Thr Met Thr Glu Val Lys Ser Leu Asn Phe Asn Met Ser
101 170      175      180      185
103 gtt agc agc atg gag tat att cct gaa gga gag att ttg gtt att act 688
104 Val Ser Ser Met Glu Tyr Ile Pro Glu Gly Glu Ile Leu Val Ile Thr
105      190      195      200
107 tat gga cga tct att gct ttt cat agt gca gta agt ctg gag cca att 736
108 Tyr Gly Arg Ser Ile Ala Phe His Ser Ala Val Ser Leu Glu Pro Ile
109      205      210      215
W--> 111 aaa tcc ttt gaa gct cct gcg acc atc aat tct gcg tct ntt cat cca 784
W--> 112 Lys Ser Phe Glu Ala Pro Ala Thr Ile Asn Ser Ala Ser Xaa His Pro
113      220      225      230
115 gag aag gag ttt ctt gtt gcg ggt gga gaa gac ttt aaa ctg tac aag 832
116 Glu Lys Glu Phe Leu Val Ala Gly Gly Glu Asp Phe Lys Leu Tyr Lys
117      235      240      245
119 tat gat tat aac agt gga gaa gag tta gaa tcc tac aaa ggt cac ttt 880
120 Tyr Asp Tyr Asn Ser Gly Glu Glu Leu Glu Ser Tyr Lys Gly His Phe
121 250      255      260      265
123 ggt ccc att cac tgt gtg aga ttc agt oct gat ggg gaa ctc tat gcc 928
124 Gly Pro Ile His Cys Val Arg Phe Ser Pro Asp Gly Glu Leu Tyr Ala
125      270      275      280
127 agc ggt tct gaa gat ggg aca ttg aga ttg tgg caa act gtg gta gga 976
128 Ser Gly Ser Glu Asp Gly Thr Leu Arg Leu Trp Gln Thr Val Val Gly
129      285      290      295
W--> 131 aag acc tat ggc ctg tgg aaa tgc gtg ntt cct gag gaa gac agc ggg 1024

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W--> 132 Lys Thr Tyr Gly Leu Trp Lys Cys Val Xaa Pro Glu Glu Asp Ser Gly
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      135 gaa ctg gca aag cca aag atc gga ttt cca gaa aca gca gag gaa gag 1072
      136 Glu Leu Ala Lys Pro Lys Ile Gly Phe Pro Glu Thr Ala Glu Glu Glu
      137          315          320          325
      139 ctg gca gaa gaa att gct tca gag aat tca gat tcc atc tat tca tca 1120
      140 Leu Ala Glu Glu Ile Ala Ser Glu Asn Ser Asp Ser Ile Tyr Ser Ser
      141 330          335          340          345
      143 act cct gaa gtt aag gcc tgagcatcag acgtgtgctg ccgaaaccat 1168
      144 Thr Pro Glu Val Lys Ala
      145          350
      147 atgttcatgg actaaacaag cagagacaag catccgcctt cagagttact gtctgcctga 1228
      149 ggcaaagagg gcagaaaata ttggggcata tgagttagct ccagtgcacg aacagctact 1288
      151 cagtgttgcc cgtgagtga aatggctgag tgtctgaggt gcaggcagga ggattgtgct 1348
      153 cacatagtgc catagcctgc tgtttggaat gaaaagccaa cttacaatct ccattttaca 1408
      155 cctaaatttc ttttagctgt ttatgttatg aagaagaaaa atatattggc ctatttttct 1468
      157 gactttccct taaagaagaa tgcctttttg tccttgcccta gtgatgaaga ggaggaaata 1528
      159 catgataaag taaccggttt gatctctttc attgtacaag gactgcttca gaacagctca 1588
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      172 <223> OTHER INFORMATION: Xaa=Leu or Ile
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W--> 194 Val Val Asp Xaa Ala Phe Ser Gly Ile Thr Pro Tyr Gly Tyr Phe Leu
      195          20          25          30
      197 Ile Ser Ala Cys Lys Asp Gly Lys Pro Met Leu Arg Gln Gly Asp Thr
      198          35          40          45
      200 Gly Asp Trp Ile Gly Thr Phe Leu Gly His Lys Gly Ala Val Trp Gly
      201          50          55          60
      203 Ala Thr Leu Asn Lys Asp Ala Thr Lys Ala Ala Thr Ala Ala Ala Asp

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204 65          70          75          80
206 Phe Thr Ala Lys Val Trp Asp Ala Val Ser Gly Asp Glu Leu Met Thr
207          85          90          95
209 Leu Ala His Lys His Ile Val Lys Thr Val Asp Phe Thr Gln Asp Ser
210          100          105          110
W--> 212 Asn Tyr Leu Xaa Thr Gly Gly Gln Asp Lys Leu Leu Arg Ile Tyr Asp
213          115          120          125
215 Leu Asn Lys Pro Glu Ala Glu Pro Lys Glu Ile Ser Gly His Thr Ser
216          130          135          140
218 Gly Ile Lys Lys Ala Leu Trp Cys Ser Asp Asp Lys Gln Ile Leu Ser
219 145          150          155          160
221 Ala Asp Asp Lys Thr Val Arg Leu Trp Asp His Ala Thr Met Thr Glu
222          165          170          175
224 Val Lys Ser Leu Asn Phe Asn Met Ser Val Ser Ser Met Glu Tyr Ile
225          180          185          190
227 Pro Glu Gly Glu Ile Leu Val Ile Thr Tyr Gly Arg Ser Ile Ala Phe
228          195          200          205
230 His Ser Ala Val Ser Leu Glu Pro Ile Lys Ser Phe Glu Ala Pro Ala
231          210          215          220
W--> 233 Thr Ile Asn Ser Ala Ser Xaa His Pro Glu Lys Glu Phe Leu Val Ala
234 225          230          235          240
236 Gly Gly Glu Asp Phe Lys Leu Tyr Lys Tyr Asp Tyr Asn Ser Gly Glu
237          245          250          255
239 Glu Leu Glu Ser Tyr Lys Gly His Phe Gly Pro Ile His Cys Val Arg
240          260          265          270
242 Phe Ser Pro Asp Gly Glu Leu Tyr Ala Ser Gly Ser Glu Asp Gly Thr
243          275          280          285
245 Leu Arg Leu Trp Gln Thr Val Val Gly Lys Thr Tyr Gly Leu Trp Lys
246          290          295          300
W--> 248 Cys Val Xaa Pro Glu Glu Asp Ser Gly Glu Leu Ala Lys Pro Lys Ile
249 305          310          315          320
251 Gly Phe Pro Glu Thr Ala Glu Glu Glu Leu Ala Glu Glu Ile Ala Ser
252          325          330          335
254 Glu Asn Ser Asp Ser Ile Tyr Ser Ser Thr Pro Glu Val Lys Ala
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/856,836

DATE: 12/12/2001

TIME: 11:52:21

Input Set : A:\1242-14p.app

Output Set: N:\CRF3\12112001\I856836.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

STATISTICS SUMMARY

PATENT APPLICATION: US/09/856,836

DATE: 12/12/2001

TIME: 11:52:21

Input Set : A:\1242-14p.app

Output Set: N:\CRF3\12112001\I856836.raw

Application Serial Number: US/09/856,836

Alpha or Numeric: Numeric

Application Class:

Application File Date: 12-12-2001

Art Unit: PCT09

Software Application: PatentIn

Total Number of Sequences: 2

Total Nucleotides: 1630

Total Amino Acids: 351

Number of Errors: 0

Number of Warnings: 12

Number of Corrections: 2

MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)

271 C: 1 (Current Filing Date differs)

341 W: 12 ((46) "n" or "Xaa" used)